

What is claimed is:

1. A radiation image forming unit comprising:

5 a stimulable phosphor sheet repeatedly usable for recording the radiation image information of a subject based on radiation applied thereto and erasing the recorded radiation image information; and

a case for storing said stimulable phosphor sheet,

10 wherein a sheet member of a different material is attached to said stimulable phosphor sheet.

2. A radiation image forming unit according to claim 1,

wherein said stimulable phosphor sheet has a recess, said sheet member of the different material being detachably mounted in said recess by a fastening member.

15 3. A radiation image forming unit according to claim 2,  
wherein said stimulable phosphor sheet has a frame, said recess being defined in a surface of said frame, said stimulable phosphor sheet having a phosphor layer detachably mounted in a recess defined in another surface of said frame.

20 4. A radiation image forming unit comprising:

25 a stimulable phosphor sheet repeatedly usable for recording the radiation image information of a subject based on radiation applied thereto and erasing the recorded

radiation image information; and  
a case for storing said stimulable phosphor sheet,  
wherein a sheet member of a different material is  
attached to said case.

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5. A radiation image forming unit according to claim 4,  
wherein said sheet member is removably attached to a surface  
of said case which is exposed to radiation applied to said  
stimulable phosphor sheet.

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6. A radiation image forming unit according to claim 4,  
wherein said case has a recess, said sheet member of the  
different material being detachably mounted in said recess  
by a fastening member.

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7. A radiation image forming unit according to claim 4,  
wherein said case comprises:

a casing for storing said stimulable phosphor sheet;  
and

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a light shield plate detachably mounted on said casing,  
a lid being angularly movably mounted on a portion of said  
light shield plate;

said sheet member of the different material being  
detachably mounted on an inner surface of said light shield  
plate.

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8. A radiation image forming unit according to claim 4,

wherein said case comprises:

a casing for storing said stimulable phosphor sheet;

and

a lid openably and closably mounted on said casing;

5                   said sheet member of the different material being  
detachably mounted on an inner surface of said lid.

9. A radiation image forming unit according to claim 4,  
wherein said case comprises:

10                  a tray for being stored in an opening defined in a side  
of said case;

said tray having:

a cap for closing said opening;

15                  said removable sheet member of the different  
material; and

said stimulable phosphor sheet.

10. A radiation image forming cassette for storing a  
stimulable phosphor sheet repeatedly usable for recording  
20                  the radiation image information of a subject based on  
radiation applied thereto and erasing the recorded radiation  
image information, said radiation image forming cassette  
having a sheet member of a different material from the  
radiation image forming cassette, said sheet member being  
25                  mounted on at least one surface of the radiation image  
forming cassette.

11. A radiation image forming cassette according to  
claim 10, wherein said sheet member is removably attached to  
a surface of said cassette which is exposed to radiation  
applied to said stimulable phosphor sheet.

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12. A radiation image forming cassette according to  
claim 10, wherein said surface of the radiation image  
forming cassette has a recess, said sheet member of the  
different material being mounted in said recess.

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13. A radiation image forming cassette according to  
claim 10, wherein said sheet member of the different  
material is removably attached to the radiation image  
forming cassette.

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14. A radiation image forming cassette according to  
claim 10, wherein said radiation image forming cassette has  
a thickness which is at most 1/2 of a standard value  
according to ISO 4090.

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15. A radiation image forming cassette according to  
claim 14, wherein said cassette comprises a pair of  
cassettes stacked together, protrusions are formed on a  
frame of one of said pair of cassettes, and recesses are  
formed on a frame of the other of said pair of cassettes,  
respectively, and

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said protrusions are fitted in said recesses such that

5            said pair of cassettes are in alignment with each other.

16. A radiation image forming cassette according to  
claim 14, wherein a marking is provided on a radiation image  
recording area of said cassette for adjusting a position of  
a radiation image recorded in said radiation image recording  
area.